



OMNI-DIRECTIONAL ANTENNAS

DATA SHEET No. B128

- 360° AZIMUTH COVERAGE
- BROAD BANDWIDTH
- LINEARLY POLARIZED

P/N: 6050



DESCRIPTION

MEC's omni-directional antennas include aerodynamic-shape blades, stubs, and biconical antennas. Model 6050 is a broadband high-power blade antenna which provides continuous coverage from 700 to 2000 MHz. The unit offers radiation pattern similar to a quarterwave monopole. The antenna is a light weight, rugged design suitable for supersonic aircrafts. Model C390-191 blade antenna covers VHF/UHF frequencies. Model C390-190 is similar to C390-191 but with extended bandwidth which covers HF/VHF/UHF frequencies. Both C390-191 and C390-190 have identical form factors.

Models 3050, 3065, 3080, and 3120 are broadband biconical antennas. The antenna units are enclosed by multi-screen polarizers which yield slant-linear polarization. Both 3050 and 3065 offer co-polar gains of 0 to 5 dBi across their bands and beamwidth variations from 30° to 80° in elevation. Model 3080 offers co-polar gain of 0 to 7 dBi across the band with 12° minimum elevation beamwidth. All units are sealed and are suitable for airborne and shipboard environments.

Model 6010 is a 2-12 GHz broadband stub antenna with radiation patterns similar to a quarter-wave monopole. This antenna has high power handling capability (100 watts). The antenna radiator is enclosed by a hemispherical dome shape radome. All units offer lightweight, compact size, and are suitable for high performance aircrafts.



P/N:3080



P/N: 3120

Model C390-152 is a L-band annular slot, flush-mount antenna, with radiation pattern and gain similar to a matched quarter-wave monopole. This antenna meets MIL-A-25707 and is designed for IFF/TACAN applications. Power handling of this antenna is 4,000 watts peak.

SPECIFICATION

MODEL NUMBER	FREQUENCY	TYPE	MAXIMUM VSWR	POLARIZATION	INPUT INTERFACE
6050 C390-190 C390-191	700 to 2000 MHz HF/VHF/UHF VHF/UHF	Blade	2.3:1 3:1 3:1	Vertical Vertical Vertical	Type N TNC TNC
3050 3065 3080 3120	6-18 GHz 2-6 GHz 2-18 GHz 18-40 GHz	Bicone	2:1 2:1 2:1 2.5:1	Slant 45° Linear Slant 45° Linear Slant 45° Linear Slant 45° Linear	SMA SMA SMA Type K
C390-143	2-12 GHz	Stub	2.5:1	Vertical	N-Type
C390-152	960-1220 MHz	Annular Slot	1.8:1(960-1000MHz) 1.6:1(1000-1100MHz) 1.8:1(1100-1220MHz)	Vertical	HN